

What is claimed is:

1. A method of preparing transgenic dandelion shoots, the method comprising:

- (a) pre-incubating dandelion explants in a pre-incubation medium containing auxin, cytokinin, acetosyringone, glucose, sucrose, and betaine, thereby producing transformed dandelion explants;
- (b) contacting and co-cultivating dandelion explants with *Agrobacterium* cells comprising DNA fragment of interest operably linked to at least one T-DNA border in a plate containing pre-incubation medium, thereby producing transformed dandelion explants; and
- (c) culturing the transformed dandelion explants in a selection medium containing auxin, cytokinin, maltose, sucrose and antibiotic, thereby producing transformed dandelion shoots ,

wherein 0.05~0.5mM of acetosyringone and 1~3% (w/v) of glucose are included in the pre-incubation media, and 0.5~3% (w/v) of maltose is included in the selection medium.

2. The method of claim 1, further comprising culturing the transformed dandelion shoots in root induction medium containing auxin, cytokinin, maltose, sucrose and antibiotic, thereby producing transgenic dandelion plants.

3. The method of claim 1, wherein the dandelion is a member of the genus *Taraxacum*.

4. The method of claim 1, wherein the dandelion is *Taraxacum platycarpum*.
5. The method of claim 1, wherein said DNA fragment of interest is at least one selected from, but is not limited to, rubber polymerase, cis-prenyltransferase, isopentenyl pyrophosphate synthase or albumin.
6. The method of claim 1, wherein the dandelion explants are from seedlings grown *in vitro*.
7. The method of claim 1, wherein the dandelion explants are from pot-grown plants
8. The method of claim 1, wherein the pre-incubation period is about 0 to about 12 days.
9. The method of claim 1, wherein the pre-incubation period is about 3 to about 9 days.
10. The method of claim 1, wherein the pre-incubation period is about 6 days.
11. The method of claim 1, wherein the co-cultivation period is about 0 to about 4 days.
12. The method of claim 1, wherein the co-cultivation period is about 1 to about 3 days.
13. The method of claim 1, wherein the co-cultivation period is about 2 days.
14. The method of claim 1, further comprising incubating the transformed dandelion

explants in shoot induction medium containing auxin, cytokinin, maltose, sucrose and antibiotic before hygromycin selection.

15. The method of claim 14, wherein the incubation period is about 7 days.